NEXT EXAMINATIONS BOARD

PRE-PLE SET 14 (COBRA)

Final Mark Scored	

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random NO.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

Read the following instruction carefully:

1. Do not forget to write your **name** and **school name** anywhere on this paper.
2. This paper has **two** sections: **A** and **B** Section **A** has **40** questions and section **B** has **15** questions. The paper has **16 printed pages** altogether.
3. Answer **all** the questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: **"FOR EXAMINERS' USE ONLY"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
QN.NO.	**MARKS**	**EXR'S NO.**
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A: 40MARKS

Questions **1** *to* **40** *carry* **one** *mark each.*

1. Give any one way animals benefit from being protected in the environment.

   .....

2. State any one way the micropyle helps to promote seed germination.

   .....

   .....

3. Besides being vertebrates, mention one other way reptiles are similar to mammals.

   .....

   .....

4. How does exposing cassava slices to heat helps to preserve them.

   .....

   .....

5. State any one way pests destroy tuber crops in the garden.

   .....

6. Give any one condition under which a liquid changes to a gas.

   .....

7. How does clearing bushes around cattle farms helps to control the spread of nagana among cattle?

   .....

   .....

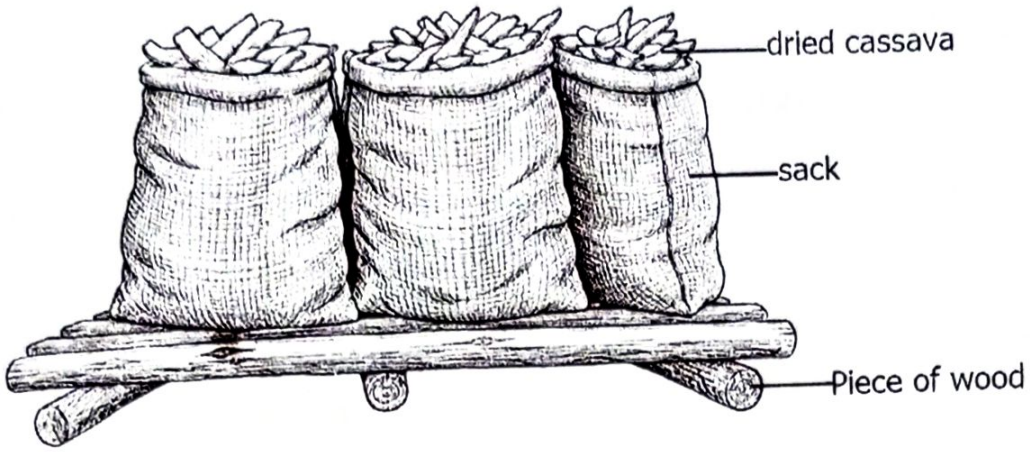
8. State one similarity between mushrooms and human beings in the way they feed.

   .....

9. Give any one way of reducing risks of snake bites in homes.

   .....

The diagram below shows a way crops are properly stored after harvesting. Use it to answer question **10**.



10. Give one reason why dried cassava is stored as shown in the diagram above.

.....

.....

11. State any one way the body immunity of a baby can be boosted naturally.

.....

12. Give any one way in which people working in the KCCA garbage collection programme can protect themselves from infections.

.....

13. Mention one role of a teacher in reducing teenage pregnancies in the community.

.....

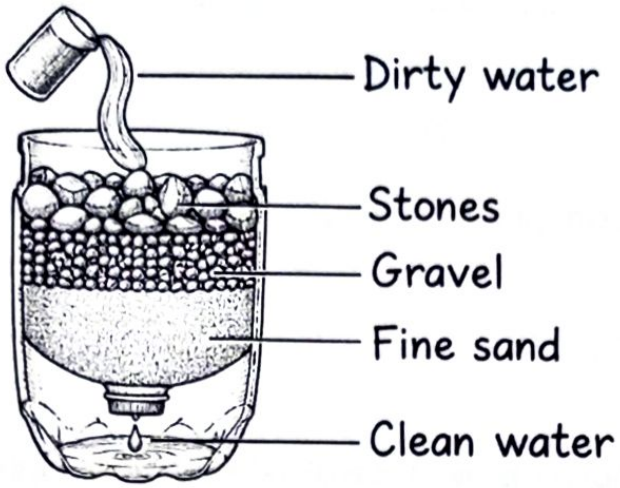
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14. Give any one-way people benefit from growing crops and trees on the same piece of land.

.....

.....

The diagram below shows a method of obtaining clean water. Use it to answer questions **15** and **16**.



15. How does the method shown in the diagram make water clean?

    .....

16. Give any one importance of the clean water obtained by the above method.

    .....

17. State any one way the government uses the information collected during a health survey.

    .....

    .....

18. Mention one practice which can help to control the spread of ringworm infection among people.

    .....

19. State one characteristic which make a duck suitable to its mode of feeding.

    .....

    .....

20. Give any one way the wearing eyeglasses help an individual to avoid contracting redeye disease in case of an outbreak.

.....

.....

21. Why does the Ministry of Health advise parents to install mosquito nets on the beds of the family member?

.....

.....

22. Give any one reason why some families in town areas fail to have enough food.

.....

.....

23. Why is it a bad practice to push metallic objects in electric sockets?

.....

24. Give any one way of reducing risks of poisoning by chemicals in a home.

.....

.....

25. Besides controlling vector pests, mention any one other way regular weeding helps to control crop diseases.

.....

.....

26. What role do claws play in the feeding of an eagle?

.....

.....

27. Mention any one importance of a windlass in our daily life.

.....

.....

28. Give any one reason why it is a bad practice for people to share accommodation with animals.

.....

.....

29. State the factor which makes zero grazing applicable in town areas.

.....

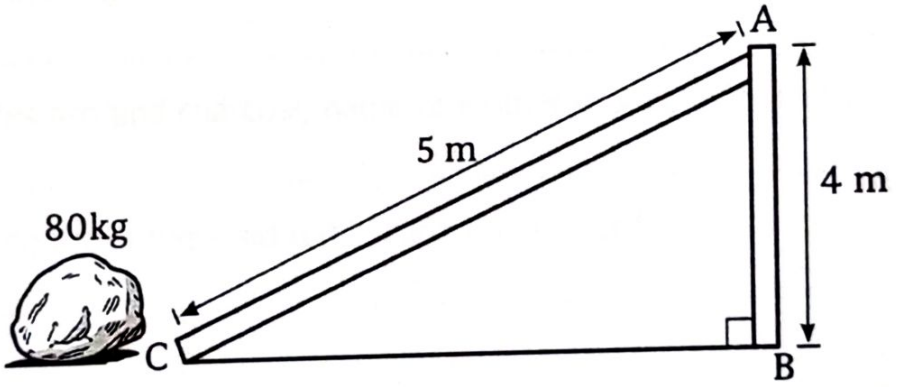
.....

30. State the behaviour which makes a crocodile a cold blooded vertebrate.

.....

.....

The diagram below shows a machine used for lifting loads. Use it to answer questions **35** and **36**.



31. State the distance through which the load is to be lifted.

.....

32. Give one advantage of using the above machine to lift loads.

.....

.....

33. Write one importance of rock particles in soil.

.....

34. State what happens when an opaque object is placed in the path of light.

.....

.....

35. How is steam energy useful in the generation of electricity?

.....

.....

36. Why should a good site for setting up a garden be well drained?

.....

.....

37. Why should people who has have sustained severe burns be give plenty of fluids to drink?

.....

38. How is prolonged breast feeding important to a mother?

.....

.....

39. Besides ash and charcoal, name one other product of burning.

.....

40. How do the anthers aid fertilisation in a flower?

.....

.....

SECTION B

Answer **all** *questions in this section*

Questions **41** *to* **55** *carry four marks each*

41. **Aken kept pineapple juice and after some days, it turned into alcohol.**

a) Which process turned the pineapple juice into alcohol?

.....

b) Besides making alcohol, mention any two other ways in which the process you have named in (a) above is useful to human beings.

(i) .....

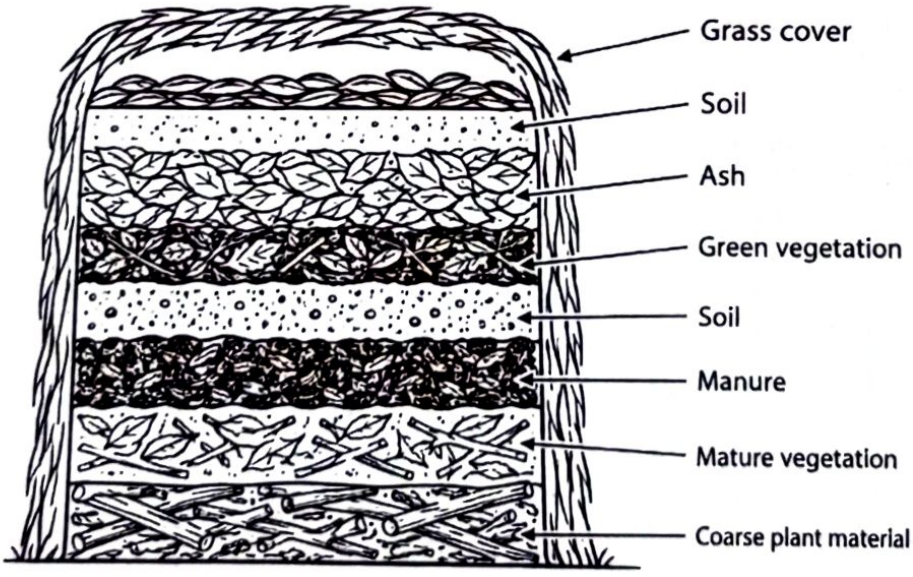
.....

(ii) .....

.....

c) Which fungus enables the process named in (a) above to occur?

42. The diagram below shows a manure making project conducted by primary five pupils on their science exhibition. Study and use it to answer questions that follow.



a) Identify the type of organic manure the pupils made as their project.

.....

b) Why did the pupils do the following on the above structure?

(i) Covering it grass: .....

.....

(ii) Adding ash: .....

.....

c) Give any one advantage of using the manure the pupils made in their project.

.....

.....

43. a) Which blood vessel return deoxygenated blood to the heart from the body?

.....

b) State the function of the left atria in the human heart.

.....

.....

c) Mention any two ways the good health of the human heart can be maintained.

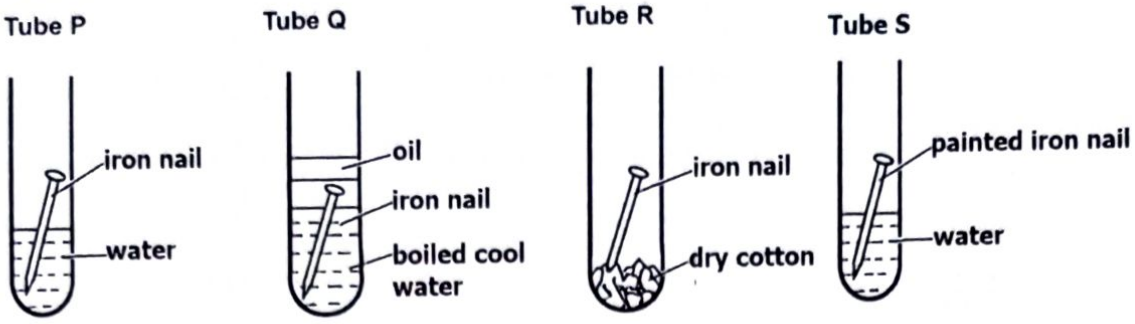
(i) .....

.....

(ii).....

.....

44. The experiment below was carried out to investigate the conditions necessary for rusting to occur. Study and use it to answer questions that follow.



a) Identify the tube in which the iron nail will rust after some time.

.....

b) State the reason why water in Tube Q was boiled before it was used.

.....

.....

c) Give any one way in which rusting is important in the environment.

.....

.....

d) Mention any one reason why rusting is regarded as a chemical change.

.....

45. a) Give the meaning of a woodlot.

.....

.....

b) Mention any one factor to consider before setting up a woodlot project.

.....

c) State any two importance of a woodlot project.

(i) .....

.....

(ii).....

.....

46. **Galen wanted to plant beans in the new growing season.**

a) State any two good qualities the bean seeds Galen should plant.

(i) .....

(ii).....

b) How does seed selection promote each of the following?

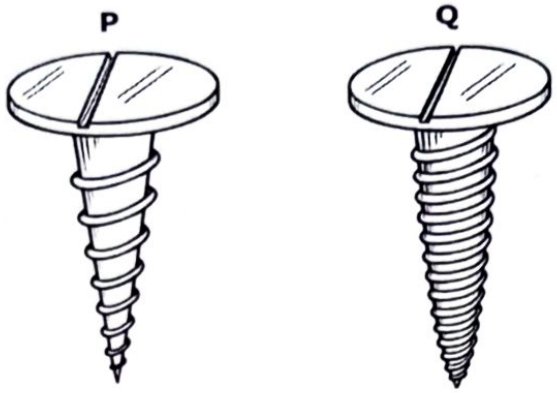
(i) Uniform maturity of crops: .....

.....

(ii)Maximum germination of seeds: .....

.....

47. The diagrams below show two screw nails **P** and **Q**. Study and use them to answer questions that follow.



a) Identify the screw nail which requires less force to be driven into a piece of wood.

.....

b) State a reason for your answer in (a) above.

.....

.....

c) How does friction force negatively affect the proper working of screw nails?

.....

d) State the principle of machines on which screws work.

.....

48. a) State any one way echoes are useful in the environment.

.....

.....

c) How does installing soft porous materials on walls help to reduce echoes in cinema halls?

.....

.....

d) On shouting, the boy heard his sound again after 10seconds when it collided with a cliff. How far was the boy from the cliff if his sound travelled at a speed of 330m/s? (***2marks***)

.....

49. a) Melly Jay usually collects 998 eggs from her 1000 layer birds. The day a blast occurred near her farm, the birds laid only 200 eggs. State any two reasons why most of the birds did not lay eggs that day.

(i) .....

(ii) .....

.....

b) Give one reason why business poultry prefer keeping exotic birds to local ones.

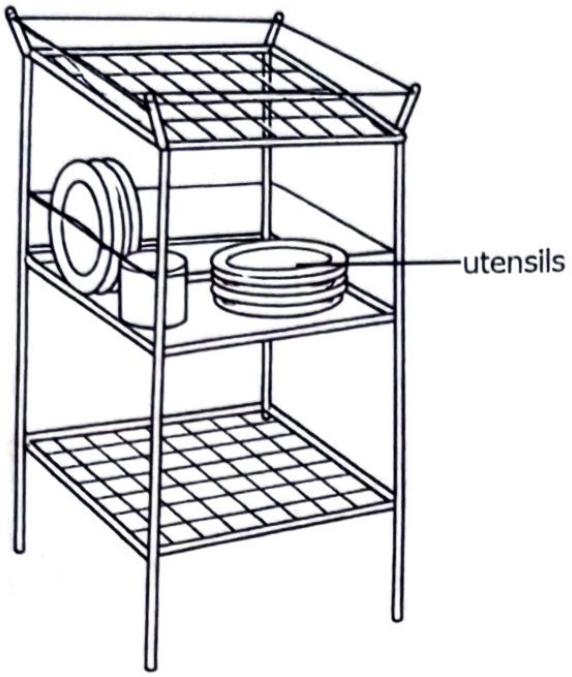
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.....

c) Mention any one breed of chickens kept for egg production.

.....

50. The diagram below shows a structure where utensils are put after washing them at home. Use it to answer questions that follow.



a) Name the structure shown in the diagram above.

.....

b) State any two importance of putting utensils on the above structure after washing them.

(i) .....

.....

(ii).....

.....

c) Give any one good quality of the structure shown in the diagram above

.....

51. a) What name is given to the natural skin moisturiser produced by the skin?

.....

b) State the role of the sweat gland in the regulation of body temperature on a hot day.

.....

.....

c) Mention any two ways people can maintain the elasticity of their skin.

(i) .....

.....

(ii).....

.....

52. a) Apart from fibres, mention any one other resource obtained from animals.

.....

b) Give any one use of animal fibres.

.....

c) State any two ways people can ensure constant supply of resources from animals.

(i) .....

.....

(ii).....

.....

53. a) Apart from causing expansion, state one other way heat gain affects each of the following states of matter.

(i) Liquids: .....

.....

(ii) Gases: .....

.....

b) State the reason why alcohol is used to measure the lowest temperature in the six's thermometer.

.....

.....

c) Give any one-way heat transfer by convection help in the management of airborne diseases in a home.

.....

.....

54. In the table below, **A** shows diseases of the reproductive system while **B** shows their effects.

A	**B**
Gonorrhoea	Smelly vaginal discharge, paralysis and insanity
Syphilis	Pregnancy complications and high risks of HIV/AIDS contraction.
Candidiasis	Blockage of oviducts in women and sperm ducts in males
Trichomoniasis	Damages the skin and unending genital infections.

a) Gonorrhoea: .....

.....

b) Syphilis: .....

.....

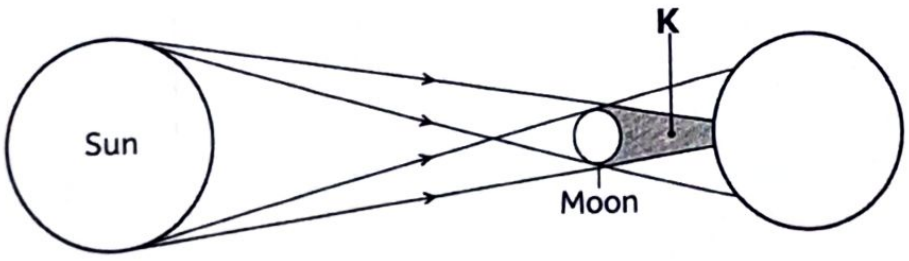
c) Candidiasis: .....

.....

d) Trichomoniasis: .....

.....

55. The diagram below shows a type of eclipse. Study and use it to answer questions that follow.



a) Identify the type of eclipse shown in the diagram above.

.....

b) How does the eclipse shown the diagram above occur?

.....

.....

c) What does a person standing at point **K** experience during the type of eclipse shown above?

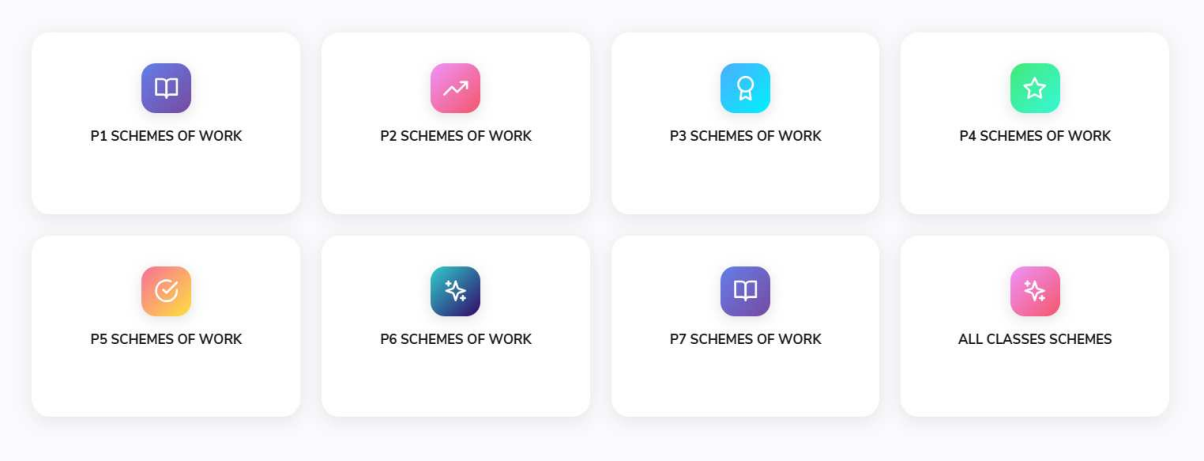
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d) State the principle of light on which eclipses are formed.

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END

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